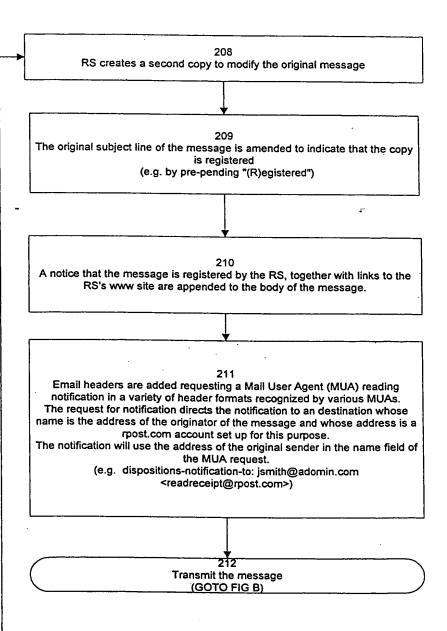


#### 200 To register an email by an originator (e.g "John Smith at email address jsmith@adomain.com) 201 originator creates an email message using any Internet Mail User Agent (MUA) (Note the message may have multiple destinations and attachments) 202 The Registration System (RS), acting as the senders MTA receives a copy of email 203 RS will create a copy of the original message to be stored until the registration process is complete RS creates a database record which included: The time at which the message was received. Th names and sizes of the attachments of th message Th name and address of each destination of the message. The time at which the message was delivered to the destination's MTA. Th delivery status of each destination 205 RS sets the Delivery Status of each destination to "UNSENT" 206 RS generates and stores Message Digest (hash) of the body of the message. RS generates and stores a hash for each fil attached to th messag

## FIG. 2A Preprocessing



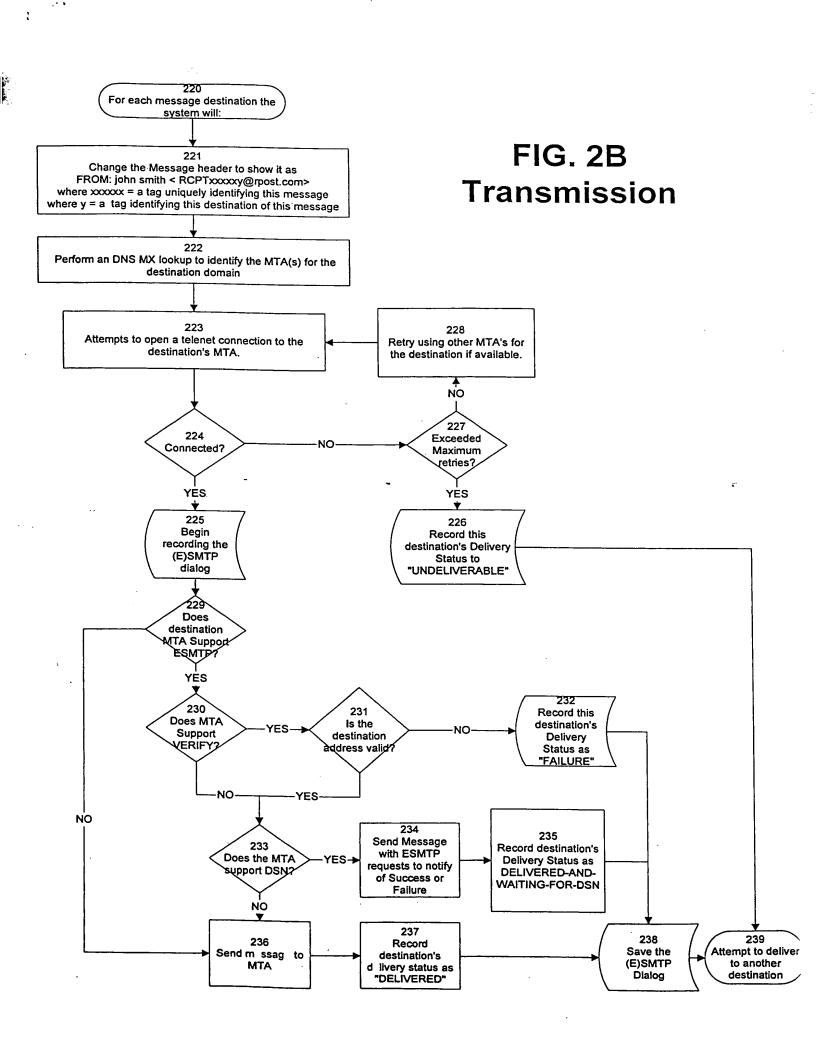
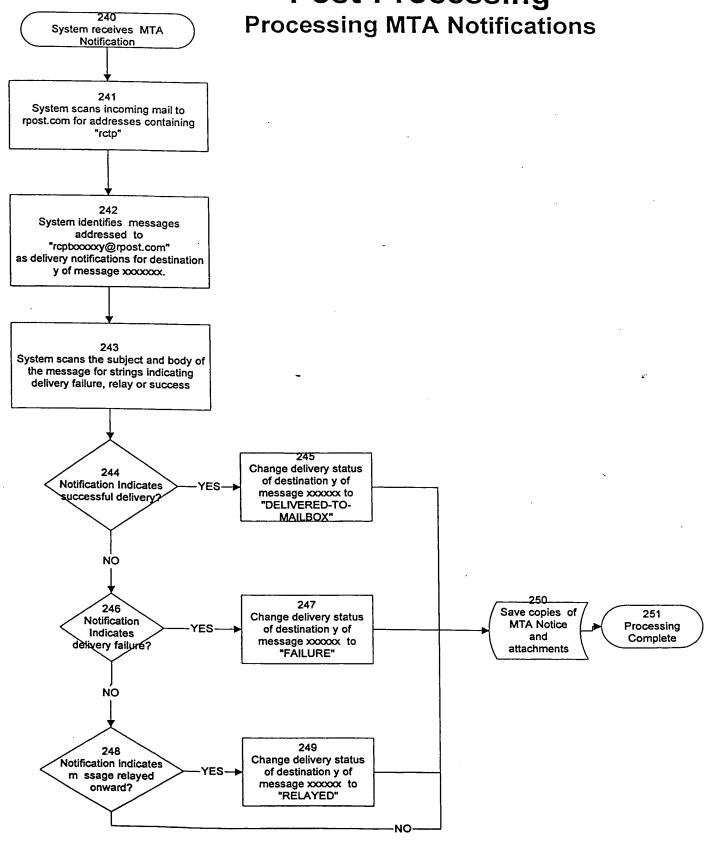


FIG. 2C
Post-Processing
Processing MTA Notifications



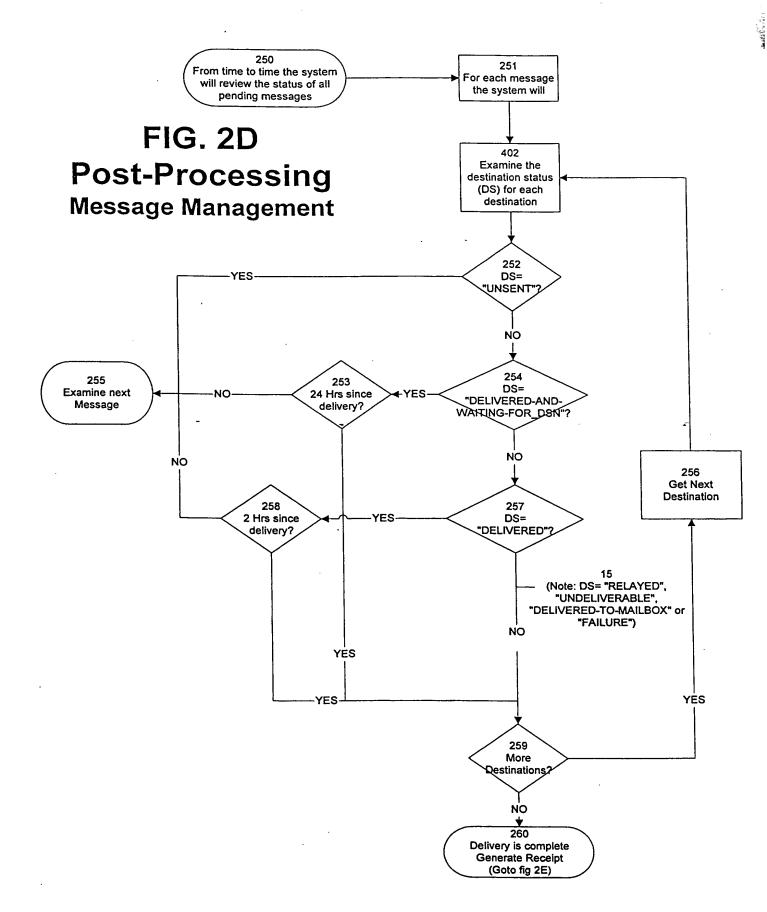
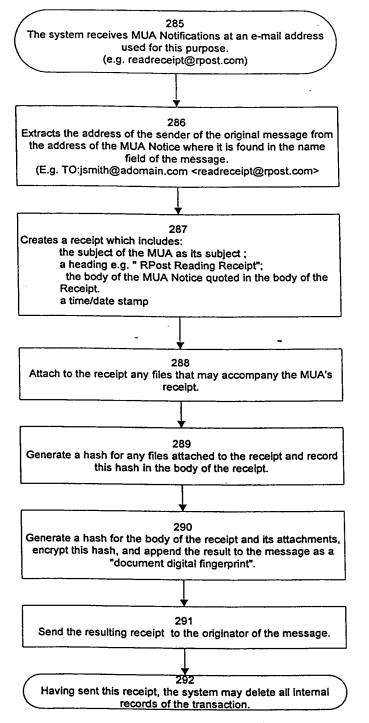
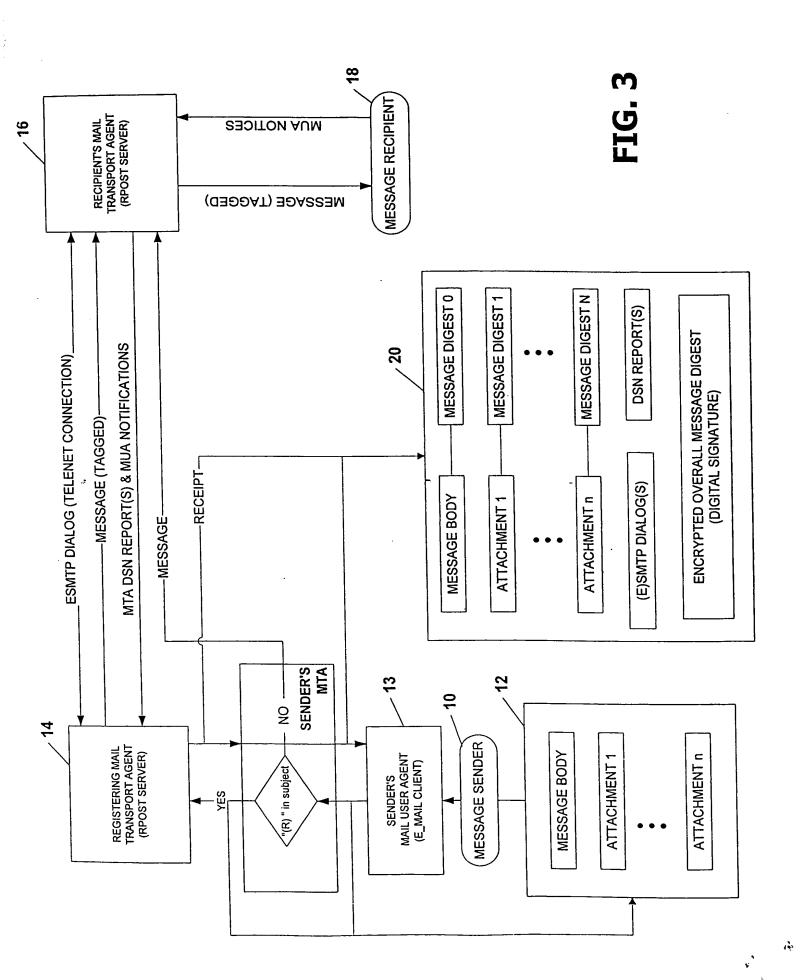


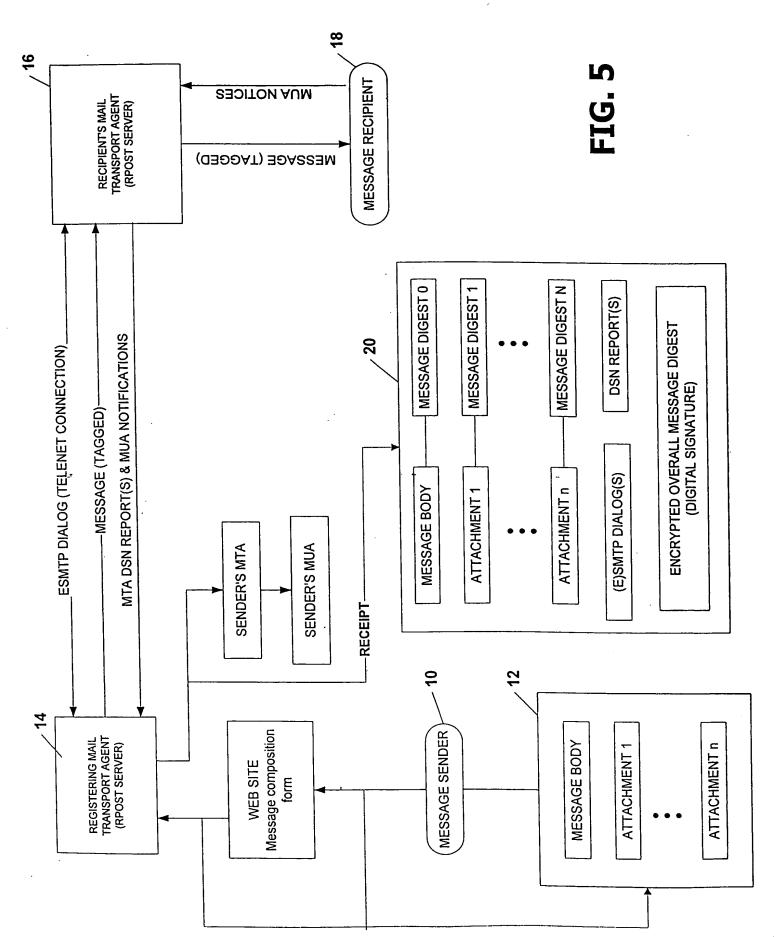
FIG. 2E START HERE FROM FIGURE The sytem generates an **Post-Processing** email Receipt which Includes: Generate a Delivery Receipt 271 A message identifier for administrative purposes. This identifier may be or may include reference to the originator's id and/or the value of the Internet Message-ID of the originator's message as received by the system. 272 The quoted body of the original message together with the email addresses of its intended recipients. 273 A table for each recipient listing:: The Delivery status of the message for that destination based upon the Systems recorded delivery status. The time at which the recipient's MTA received the message and/or the time at which the system received a DSN from the recipient's MTA. A list of the original attachments of the email together with their separate hash numbers. Transcripts or abstractions of the transcripts of all of the SMTP dialogs generated in the delivery of the message to each destination. 276 Quotations from the bodies and the attachments of all received DSNs including whatever details of delivery or disposition of the message that they might reveal 277 The system will attach to the receipt copies of all of the attachments of the original message 278 The system will attach received DSN messages and their attachments to the receipt. Having generated the text of the receipt so far, the system then generates an encrypted hash of the body of the receipt 280 The encrypted hash is appended to the body of the message as a digital signature 281 The receipt, now being complete, is sent by email to the originator with the advice that it be kept for the originator's records. The system may now delete all copies of the original m ssage, attachment and **DSNs** 

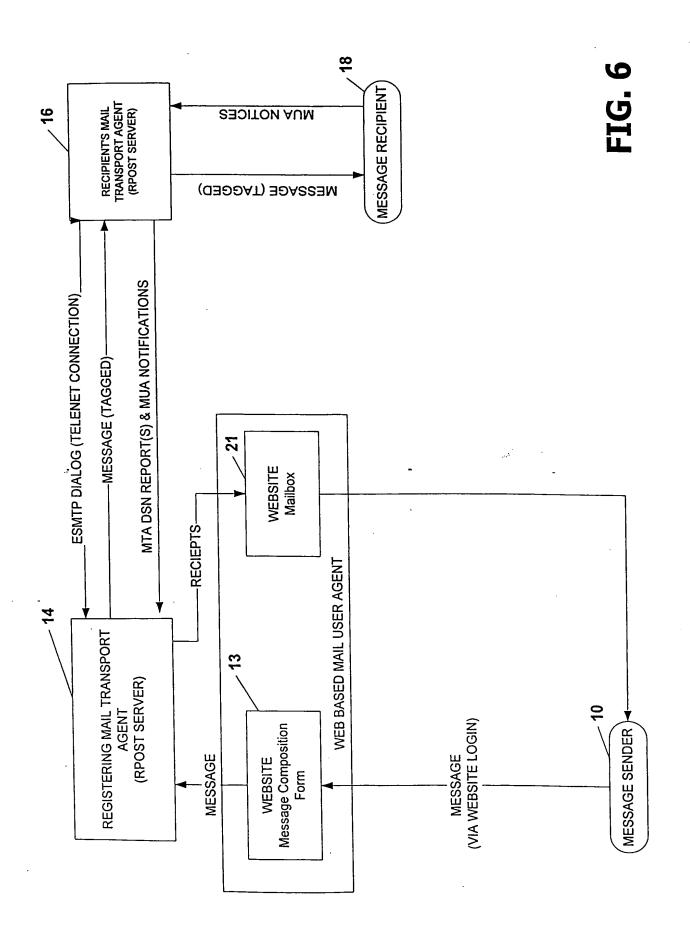
# FIG. 2F Post-Processing Generate a Reading Notice





p.

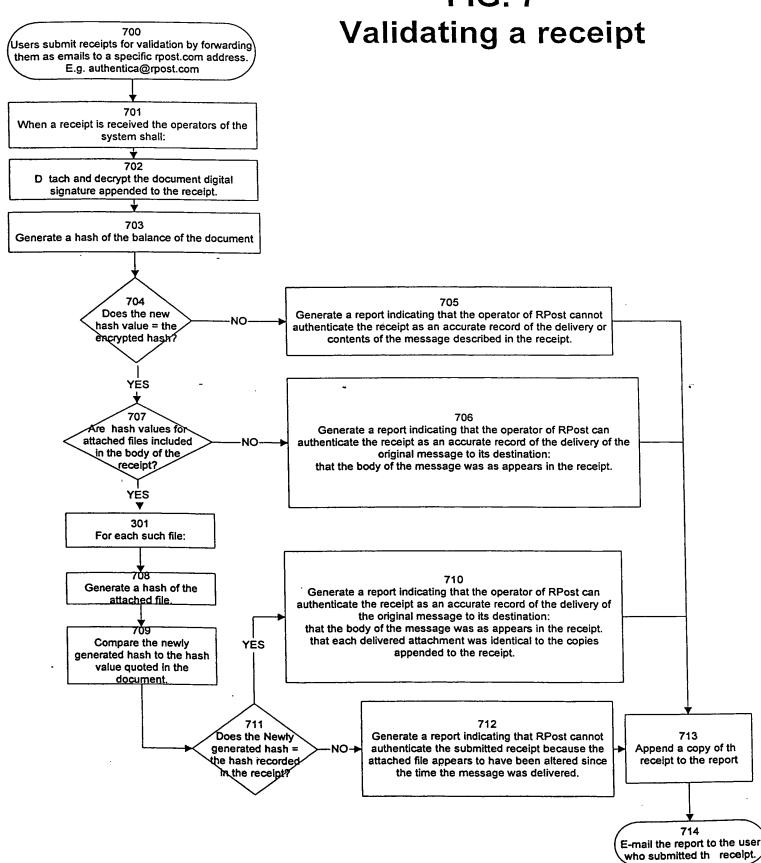




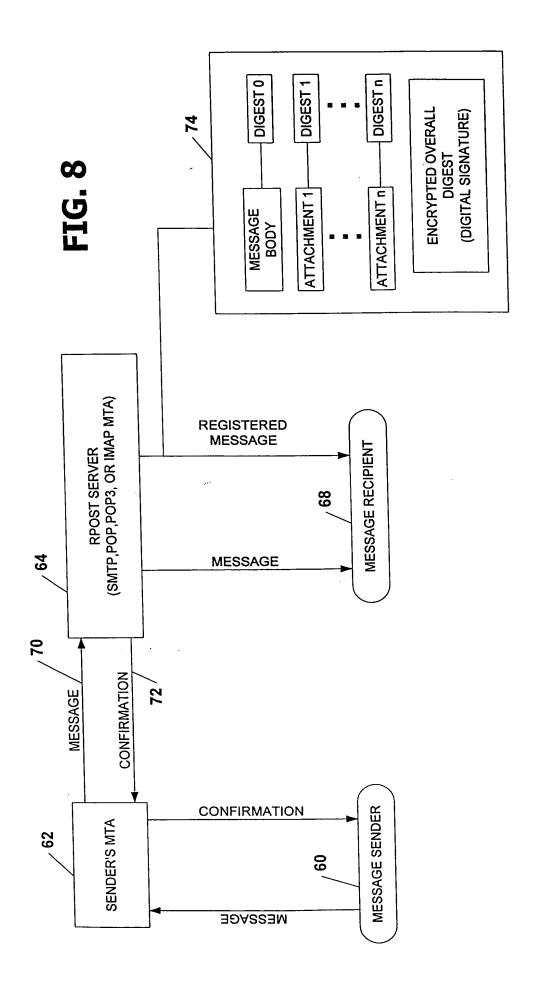
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a.

## FIG. 7

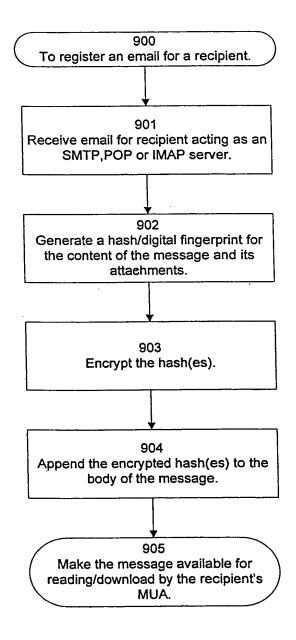


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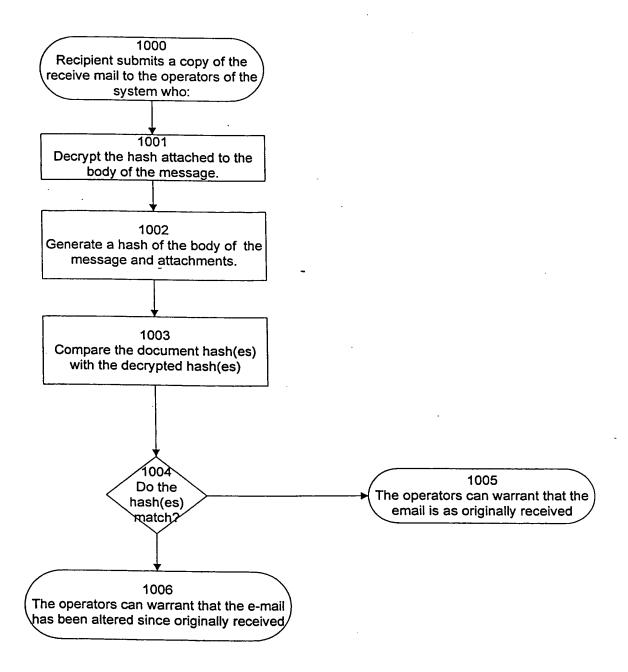


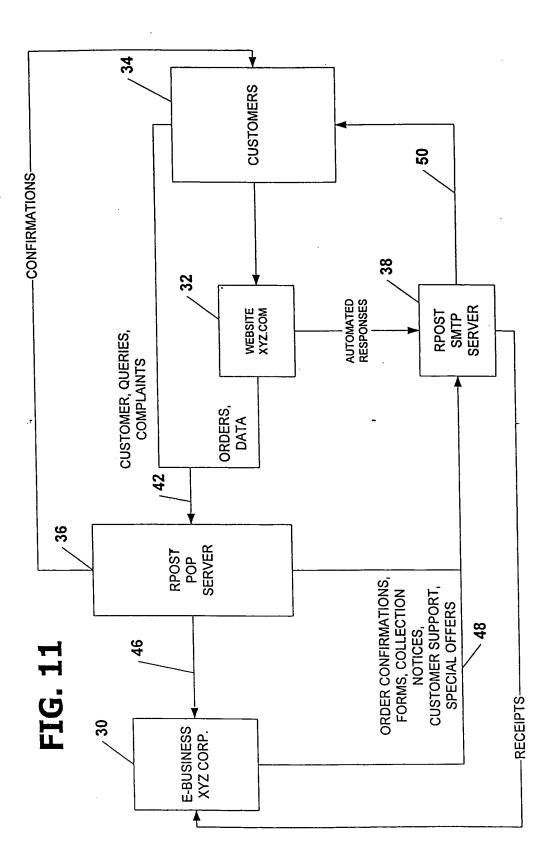
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#### FIG. 9 Validating Received Mail



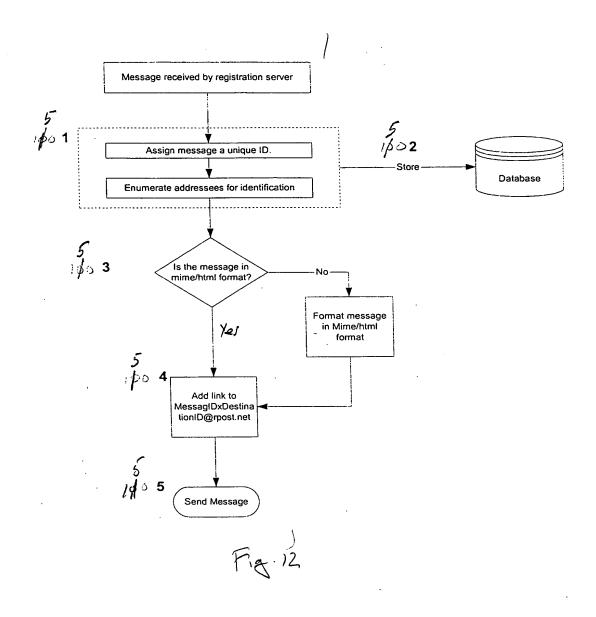
#### FIG. 10 Registering Inbound Mail





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## Figure 17 Transmitting a message for Registered Reply



# Figure # Transmitting a Registered Reply message

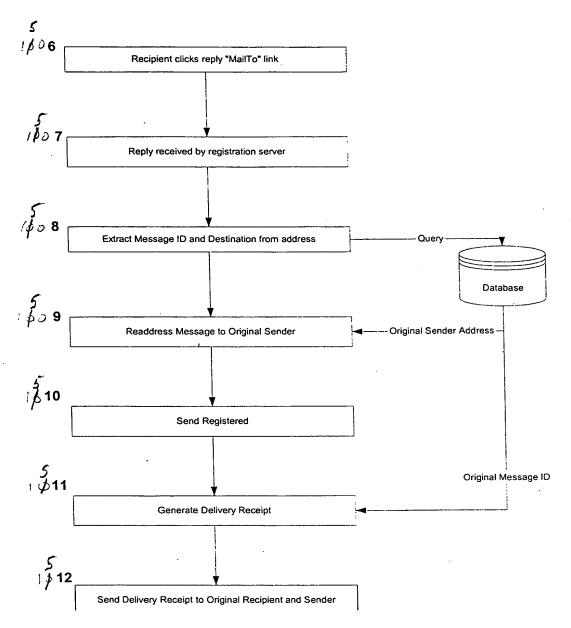


Fig. 13